Report #: DOE/EIA-0640(2009) Release date: March 18, 2010 Next release date: March 2011

Annual Energy Outlook Retrospective Review: Evaluation of Projections in Past Editions (1982-2009)

Table 1. Comparison of Absolute Percent Difference Between AEO Reference Case Projections and Realized Outcomes

Average Absolute Percent or Percentage Point Difference						
Variable	AEO82 to AEO2004	AEO82 to AEO2005	AEO82 to AEO2006	AEO82 to AEO2007	AEO82 to AEO2008	AEO82 to AEO2009
Gross Domestic Product						
Real Gross Domestic Product (Growth Rate)*	1.2	1.2	1.1	1.1	1.0	1.0
Petroleum						
World Oil Prices	56.4	54.1	52.6	51.7	50.9	51.1
Total Petroleum Consumption	2.9	2.9	2.9	2.9	2.9	3.3
Crude Oil Production	4.6	4.7	4.9	5.1	5.5	5.8
Petroleum Net Imports	6.8	6.6	6.5	6.2	6.0	6.5
Natural Gas						
Natural Gas Wellhead Prices	67.5	64.9	63.1	61.1	59.1	57.6
Total Natural Gas Consumption	6.4	6.4	6.6	7.0	7.0	7.1
Natural Gas Production	4.6	5.0	5.7	6.0	6.2	6.2
Natural Gas Net Imports	15.2	14.9	14.7	14.6	14.3	15.6
Coal						
Coal Prices to Electric Generating Plants**	47.7	47.0	46.4	45.4	44.5	43.7
Total Coal Consumption	3.9	3.9	4.0	4.1	4.1	4.2
Coal Production	3.8	3.9	4.0	4.0	4.1	4.1
Electricity						
Average Electricity Prices	19.6	19.5	19.7	19.7	19.6	19.7
Total Electricity Sales	2.4	2.4	2.5	2.5	2.6	2.7
Total Energy, Carbon and Intensity						
Total Energy Consumption	2.2	2.2	2.2	2.4	2.5	2.8
Residential Energy Consumption	2.9	2.9	2.9	3.2	3.2	3.3
Commercial Energy Consumption	3.9	4.0	4.1	4.3	4.3	4.4
Industrial Energy Consumption	3.6	3.7	4.1	4.5	5.0	5.8
Transportation Energy Consumption	4.4	4.4	4.4	4.4	4.4	4.6
Total Carbon Dioxide Emissions	3.5	3.5	3.3	3.3	3.4	3.5
Energy Intensity	5.8	5.7	5.7	5.9	5.9	6.1

AEO - Annual Energy Outlook

Source: Statistics in Table 2 are a summary of the calculations in Tables 3 through 19. The data in Tables 3 through 19 are based on the 1982 through 2009 *Annual Energy Outlook* projections. Historical data are taken from the *Annual Energy Review 2008*, DOE/EIA-0384(2008) (Washington, DC, June 26, 2009) and the *Monthly Energy Review June 2009*, DOE/EIA-0035(2009/06) (Washington, DC, June 24, 2009).

Note: Projections of carbon dioxide emissions began in *AEO93* and were first evaluated in 2000 retrospective. Evaluation of energy intensity projections began in 2003. Revisions to historical data are reflected in this edition.

^{*} The basis for GDP comparison is the projection differences in the growth rate of real GDP. Thus, the summary information for Table 3 is on a percentage point basis and is different from the other AEO concepts which are evaluated in levels.

^{**} Coal prices to electric generating plants are from the *Monthly Energy Review*. Beginning in *AEO2003*, EIA electric generating projections incorporated combined heat and power (CHP) electricity generation in electricity generating plants. Prior to *AEO2003*, coal price projections reflected data collected, estimated, and reported to electric utilities and excluded CHP power generation.